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**From:** Hope Taylor [hope@cwfnc.org]  
**Sent:** 8/15/2017 4:28:26 PM  
**To:** Tarr, Jeremy M [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=98859532088e4437968231eb6fef6b70-jmtarr1]  
**Subject:** Great talking with you, here's the CFER paper  
**Attachments:** C-FerCircle (2).pdf

Dear Jeremy, thanks so much for calling.

Attached is the C-FER technical paper. It gets rather theoretical about damage and injury calculations, but using the final equation that is derived is how we arrived at the 943 feet for the blast zone. We've heard that the pressure could be allowed to INCREASE from 1440 PSI, which would, of course, increase the blast zone.

Note the information on model validation on pages 17-20, including the table of actual pipeline incidents and their damage characteristics.

I'll be submitting 401 comments regarding the failure of APC LLC to acknowledge crossing of specific classes of water, and about the safety issues, as well as our groundwater comments. John Runkle has re-submitted our earlier joint comments, which I helped to prepare, including detailed information on the failure of ACP LLC to demonstrate need for the project. From looking at the 401 regulations, apparently the only way an applicant can be granted a waiver for significant impacts is if there is a clear social or economic benefit. As there is no need for the gas supply for energy production (energy demand is flat and forecast to remain so), and no prospect of economic development in these mostly rural counties because the cost for connections is so high, and so few permanent jobs created, as well as, we contend, significant disproportionate impacts to people of color and low income, we contend that there are no economic benefits and only social deficits. Moreover, it is clear that ACP, LLC expects to recover high rate of return through substantially increased electric utility rates to customers throughout the state, which will have a disproportionate impact on low income residents.

Thanks for your kind attention and excellent questions!

Hope

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